

INFORMATION DISCLOSURE

(use as many sheets as necessary)

Sheet

1

of

5

Application Number

10/603,249

Filing Date

June 25, 2003

First Named Inventor

Van der Ploeg, Leonardus, H.T.

Group Art Unit

1632

Examiner Name

~~To be assigned~~ Falk

Attorney Docket Number

20561 YDA

[illegible][illegible]

**Examiner
Signature**

/Anne Marie Falk/

Date Considered

06/26/2006

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Computer generated form * IDS Form* (IDS Folder), Merck & Co., Inc., -7/12/2005

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			COMPLETE IF KNOWN		
			Application Number	10/603,249	
			Filing Date	June 25, 2003	
			First Named Inventor	Van der Ploeg, Leonardus, H.T.	
			Group Art Unit	1632	
			Examiner Name	To be assigned	
Sheet	2	of	5	Attorney Docket Number	20561YDA

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
AMF	G	DESARNAUD, ET AL., "Molecular cloning, functional expression and pharmacological characterization of a mouse melanocortin receptor gene", Biochem. Journal, Vol. 299, No. 2, pages 367-373, 1994.
	H	ROSELLI-REHFUSS, ET AL., "Identification of a receptor for melanotropin and other proopiomelanocortin peptides in the hypothalamus and limbic system", Proc. Natl. Acad. Sci., Vol. 90, pages 8856-8860, 1993.
	I	GANTZ, ET AL., "Molecular Cloning of a Novel Melanocortin Receptor", J. Biol. Chem., Vol. 268, No. 11, pages 8246-8250, 1993.
	J	MOUNTJOY, ET AL., "Localization of the Melanocortin-4 Receptor (MC4-R) in Neuroendocrine and Autonomic Control Circuits in the Brain", Molecular Endocrinology, Vol. 8, No. 10, pages 1298-1308, 1994.
	K	TYBULEWICZ, VICTOR L.J., ET AL., "Neonatal Lethality and Lymphopenia in Mice with a Homozygous Disruption of the c-abl Proto-Oncogene", Cell, Vol. 65, pages 1153-1163, 1991.
	L	HAYNES, ET AL., "Interactions Between the Melanocortin System and Leptin in Control of Sympathetic Nerve Traffic", Hypertension, Vol. 33, Part II, pages 542-547, 1999.
	M	DINULESCU, ET AL., "Mahogany (mg) stimulates feeding and increases basal metabolic rate independent of its suppression of agouti", Proc. Natl. Acad. Sci., Vol. 95, pages 12707-12712, 1998.
	N	GIROS, ET AL., "Hyperlocomotion and indifference to cocaine and amphetamine in mice lacking the dopamine transporter", Nature, Vol. 379, pages 606-612, 1996.
	O	CONE, ET AL., "The Melanocortin Receptors: Agonists, Antagonists, and the Hormonal Control of Pigmentation", Recent Progress in Hormone Research, Vol. 51, pages 287-318, 1996.
	P	BOSTON, ET AL., "Independent and Additive Effects of Central POMC and Leptin Pathways on Murine Obesity", Science, Vol 278, pages 1641-1644, 1997.
	Q	CHEN, ET AL., "Altered Expression of Agouti-Related Protein and Its Colocalization with Neuropeptide Y in the Arcuate Nucleus of the Hypothalamus during Lactation", Endocrinology, Vol. 140, pages 2645-2650, 1999.
	R	CUNNINGHAM, ET AL., "Leptin's Actions on the Reproductive Axis: Perspectives and Mechanisms", Biology of Reproduction, Vol. 60, pages 216-222, 1999.
	S	ELIAS, ET AL., "Leptin Activates Hypothalamic CART Neurons projecting to the Spinal Cord", Neuron, Vol. 21, pages 1375-1385, 1998.
✓	T	FAN, ET AL., "Role of melanocortinergic neurons in feeding and the agouti obesity syndrome", Nature, Vol. 385, pages 165-168, 1997.
AMF	U	FONG, ET AL., "ART (Protein Product of Agouti-Related Transcript) as an Antagonist of MC-3 and MC-4 Receptors", Biochemical and Biophysical Research Communications, Vol. 237, pages 629-631, 1997.

Examiner Signature	/Anne Marie Falk/	Date Considered	06/26/2006
--------------------	-------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450. Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., 7/12/2005

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			COMPLETE IF KNOWN		
			Application Number	10/603,249	
			Filing Date	June 25, 2003	
			First Named Inventor	Van der Ploeg, Leonardus, H.T.	
			Group Art Unit	1632	
			Examiner Name	To be assigned	
Sheet	3	of	5	Attorney Docket Number	20561YDA

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
AMF	V	FINN, ET AL., "The Stimulatory Effect of Leptin on the Neuroendocrine Reproductive Axis of the Monkey", Endocrinology, Vol. 139, No. 11, pages 4652-4662, 1998.
	W	GUAN, ET AL., "Evidence of altered hypothalamic pro-opiomelanocortin/neuropeptide Y mRNA expression in tubby mice", Molecular Brain Research, Vol. 59, pages 273-279, 1998.
	X	GUNN, ET AL., "The mouse <i>mahogany</i> locus encodes a transmembrane form of human attractin", Nature, Vol. 398, pages 152-156, 1999.
	Y	HADLEY, ET AL., "Discovery and Development of Novel Melanogenic Drugs", Pharmaceutical Biotechnology, Chapter 25, pages 575-595, 1998.
	Z	HAHN, ET AL., "Coexpression of AgRP and NPY in fasting-activated hypothalamic neurons", Nature Neuroscience, Vol. 1, No. 4, pages 271-272, 1998.
	AA	KALRA, ET AL., "Interacting Appetite-Regulating Pathways in the Hypothalamic Regulation of Body Weight", Endocrine Reviews, Vol 20, No. 1, pages 68-100, 1999.
	AB	LU, ET AL., "Agouti protein is an antagonist of the melanocyte-stimulating-hormone receptor", Nature, Vol. 371, pages 799-802, 1994.
	AC	MARSH, ET AL., "Response of melanocortin-4 receptor-deficient mice to anorectic and orexigenic peptides", Nature Genetics, Vol. 21, pages 119-122, 1999.
	AD	MILTENBERGER, ET AL., "The Role of the agouti Gene in the Yellow Obese Syndrome", J. Nutr, Vol. 127, pages 1902S-1907S, 1997.
	AE	MOUNTJOY, ET AL., "Obesity, Diabetes and Functions for Proopiomelanocortin-derived Peptides", Molecular and Cellular Endocrinology, Vol. 128, pages 171-177, 1997.
	AF	NAGLE, ET AL., "The <i>mahogany</i> protein is a receptor involved in suppression of obesity", Nature, Vol. 398, pages 148-151, 1999.
	AG	ROBERTS, ET AL., "The New Obesity Genes", Nutrition Reviews, Vol. 54, No. 2, pages 41-49, 1996.
	AH	SHUTTER, ET AL., "Hypothalamic expression of ART, a novel gene related to agouti, is up-regulated in obese and diabetic mutant mice", Genes & Development, Vol. 11, pages 593-602, 1997
V	AI	VON KOCH, ET AL., "Generation of APLP2 KO Mice and Early Postnatal Lethality in APLP2/APP Double KO Mice", Neurobiology of Aging, Vol. 18, pages 661-669, 1997.
AMF	AJ	YANG, ET AL., "Characterization of Agouti-Related Protein Binding to Melanocortin Receptors", Molecular Endocrinology, Vol. 13, No. 1, pages 148-155, 1999.

Examiner Signature	/Anne Marie Falk/	Date Considered	06/26/2006
--------------------	-------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450. Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., 7/12/2005

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			COMPLETE IF KNOWN		
			Application Number	10/603,249	
			Filing Date	June 25, 2003	
			First Named Inventor	Van der Ploeg, Leonardus, H.T.	
			Group Art Unit	1632	
			Examiner Name	To be assigned	
Sheet	4	of	5	Attorney Docket Number	20561 YDA

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
AMF	AK	YEN, ET AL., "Obesity, diabetes, and neoplasia in yellow A -mice: ectopic expression of the <i>agouti</i> gene FASEB J., Vol. 8, pages 479-488, 1994.
	AL	KASK, A., ET AL., "Discovery of a Novel Superpotent and Selective Melanocortin-4 Receptor Antagonist (HS024): Evaluation <i>in Vitro</i> and <i>in Vivo</i> ", Endocrinology, Vol. 139, No. 12, pages 5006-5014, 1998.
	AM	HUSZAR, D., ET AL., "Targeted Disruption of the Melanocortin-4 Receptor Results in Obesity in Mice", Vol. 88, pages 131-141, 1997.
	AN	CAMPBELL, ET AL., "Totipotency or Multipotentiality of Cultured Cells: Applications and Progress", Theriogenology, Vol. 47, pages 63-72, 1997.
	AO	BRADLEY, ET AL., "Modifying the Mouse: Design and Desire", Biotechnology, Vol. 10, pages 534-539, 1992.
	AP	MULLINS, ET AL., "Perspectives Series: Molecular Medicine in Genetically Engineered Animals", Clin. Invest., Vol. 97, No. 7, pages 1557-1560, 1996.
	AQ	KUEHN, ET AL., "A potential animal model for Lesch-Nyhan syndrome through introduction of HPRT mutations into mice", Vol. 326, pages 295-298, 1987.
	AR	JAENISCH, R. "Transgenic Animals", Science, Vol. 240, pages 1468-1474, 1988.
	AS	SIGMUND, ET AL. "Viewpoint: Are Studies in Genetically Altered Mice Out of Control?", Arterioscler Thromb Vasc Biol., Vol. 20, pages 1425-1429, 2000.
	AT	MOENS, ET AL. "Defects in heart and lung development in compound heterozygotes for two different targeted mutations at the <i>N-myc</i> locus", Development, Vol. 119, pages 485-499, 1993.
	AU	JACKS, ET AL., "Effects of an RB mutation in the mouse", Nature, Vol. 359, pages 295-300, 1992.
	AV	CAPECCHI, ET AL., "The New Mouse Genetics: Altering the Genome by Gene Targeting", Trends in Genetics, Vol. 5, No. 3, pages 70-76, 1989.
	AW	DONEHOWER, ET AL., "Effects of Genetic Background on Tumorigenesis in p53-Deficient Mice", Molecular Carcinogenesis, Vol. 14, pages 16-22, 1995.
✓	AX	BIOTECH DICTIONARY, "Hemizygous definition and Hemizygous gene definition", BioTech Resources and Indiana University, 2002.
AMF	AY	CHEN, ET AL., "Exocrine Gland Dysfunction in MC5-R-Deficient Mice: Evidence for Coordinated Regulation of Exocrine Gland Function by Melanocortin Peptides", Cell, Vol. 91, pages 789-798, 1997.

Examiner Signature	/Anne Marie Falk/	Date Considered	06/26/2006
--------------------	-------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450. Computer generated form "IDS Form" (IDS Folder), Merrick & Co., Inc., 7/12/2005

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				COMPLETE IF KNOWN	
				Application Number	10/603,249
				Filing Date	June 25, 2003
				First Named Inventor	Van der Ploeg, Leonardus, H.T.
				Group Art Unit	1632
				Examiner Name	To be assigned
Sheet	5	of	5	Attorney Docket Number	20561YDA

[illegible]

Examiner Signature	/Anne Marie Falk/	Date Considered	06/26/2006
-----------------------	-------------------	--------------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., -7/12/2005